

FORM 3		DANGEROUS WASTE PERMIT APPLICATION						I. EPA/State I.D. No.											
								W	A	7	8	9	0	0	0	8	9	6	7

FOR OFFICIAL USE ONLY

Application Approved	Date Received (month/ day / year)	Comments
		Closed as of 7/22/2002.

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or If this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. First Application (place an "X" below and provide the appropriate date)

☒ **1. Existing Facility** (See instructions for definition of "existing" facility. Complete item below.)

MO	DAY	YEAR
03	22	1943

*For existing facilities, provide the date (mo/day/yr) operation began or the date construction commenced. (use the boxes to the left)

*The date construction of the Hanford Facility commenced

☐ **2. New Facility** (Complete item below.)

MO	DAY	YEAR

For new facilities, provide the date (mo/day/yr) operation began or is expected to begin

B. Revised Application (Place an "X" below and complete Section I above)

☒ **1. Facility has an Interim Status Permit**

☒ **2. Facility has a Final Permit**

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. Process Code – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the codes(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the (Section III-C).

B. Process Design Capacity – For each code entered in column A enter the capacity of the process.

- Amount – Enter the amount.
- Unit of Measure – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
STORAGE:		
Container (barrel, drum, etc.)	S01	Gallons or liters
Tank	S02	Gallons or liters
Waste pile	S03	Cubic yards or cubic meters
Surface impoundment	S04	Gallons or liters
	S06	Cubic yards or cubic meters*
DISPOSAL:		
Injection well	D80	Gallons or liters
Landfill	D81	Acre-feet (the volume that would cover one acre to a Depth of one foot) or hectare-meter
Land application	D82	Acres or hectares
Ocean disposal	D83	Gallons per day or liters per day
Surface impoundment	D84	Gallons or liters
TREATMENT:		
Tank	T01	Gallons per day or liters per day
Surface impoundment	T02	Gallons per day or liters per day
Incinerator	T03	Tons per hour or metric tons per hour; gallons per hour or liters per hour
Other (use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.)	T04	Gallons per day or liters per day

Unit of Measure	Unit of Measure Code	Unit of Measure	Unit of Measure Code	Unit of Measure	Unit of Measure Code
Gallons	G	Liters Per Day	V	Acre-Feet	A
Liters	L	Tons Per Hour	D	Hectare-Meter	F
Cubic Yards.....	Y	Metric Tons Per Hour	W	Acres	B
Cubic Meters.....	C	Gallons Per Hour	E	Hectares	Q
Gallons Per Day	U	Liters Per Hour	H		

III. PROCESS – CODES AND DESIGN CAPACITIES (continued)

Example for Completing Section III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

Line No.	A. Process Code <i>(from list above)</i>			B. Process Design Capacity				For Official Use Only			
				1. Amount <i>(Specify)</i>		2. Unit of Measure <i>(enter code)</i>					
X-1	S	0	2	600			G				
X-2	T	0	3	20			E				
1	S	0	1	41,640			L				
2											
3											
4											
5											
6											
7											
8											
9											
10											

C. Space for additional process codes or for describing other process (code "T04"). For each process entered here include design capacity.

S01

The 303-K Storage Facility (303-K), which began waste management operation in January 1972, was used for the storage of mixed waste in U.S. Department of Transportation-specified containers. Both liquid and solid waste was stored at the 303-K. The liquid waste was stored on a 57-square meter (610-square foot) pad within the building. The building provided secondary containment for the contents of the containers. The solid waste was stored outside the building on a 426-square meter (4,590-square foot) asphalt, concrete, and gravel pad. The storage area was surrounded by a chain link fence. The 303-K no longer stores mixed waste and was closed as of July 22, 2002.

The maximum process design capacity for container storage at the 303-K was 41,640 liters (11,000 gallons).

IV. DESCRIPTION OF DANGEROUS WASTES

A. Dangerous Waste Number – Enter the digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four-digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.

B. Estimated Annual Quantity - For each listed waste entered in column A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. Unit of Measure - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
Pounds	P	Kilograms	K
Tons	T	Metric Tons	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. Processes

1. Process Codes:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. Process Description: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
- Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

Example for completing Section IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste.

Line No.	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)			D. Processes				
									1. Process Codes (enter)			2. Process Description (if a code is not entered in D(1))	
X-1	K	0	5	4	900		P		T03	D80			
X-2	D	0	0	2	400		P		T03	D80			
X-3	D	0	0	1	100		P		T03	D80			
X-4	D	0	0	2					T03	D80			Included with above

Photocopy this page before completing if you have more than 26 wastes to list.

I.D. Number (enter from page 1)											
W	A	7	8	9	0	0	0	8	9	6	7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

Line No.	A. Dangerous Waste No. (enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (enter code)			D. Processes				
									1. Process Codes (enter)			2. Process Description (if a code is not entered in D(1))	
1	D	0	0	1	6,804		K		S01				Storage-Container (Refer to IV.E.1)
2	D	0	0	2			K		S01				Storage-Container (Refer to IV.E.1)
3	D	0	0	6			K		S01				Storage-Container (Refer to IV.E.1)
4	D	0	2	9			K		S01				Storage-Container (Refer to IV.E.1)
5	D	0	3	5			K		S01				Storage-Container (Refer to IV.E.1)
6	D	0	3	9			K		S01				Storage-Container (Refer to IV.E.1)
7	D	0	4	0			K		S01				Storage-Container (Refer to IV.E.1)
8	F	0	0	1			K		S01				Storage-Container (Refer to IV.E.1)
9	F	0	0	2			K		S01				Storage-Container (Refer to IV.E.1)
10	F	0	0	3			K		S01				Storage-Container (Refer to IV.E.1)
11	F	0	0	5			K		S01				Storage-Container (Refer to IV.E.1)
12	W	P	0	1			K		S01				Storage-Container (Refer to IV.E.1)
13	W	T	0	1			K		S01				Storage-Container (Refer to IV.E.1)
14	W	T	0	2			K		S01				Storage-Container (Refer to IV.E.1)
15	D	0	0	7	18,144		K		S01				Storage-Container (Refer to IV.E.2)
16	W	T	0	2			K		S01				Storage-Container (Refer to IV.E.2)
17	D	0	0	1	18,144		K		S01				Storage-Container (Refer to IV.E.2)
18	D	0	0	5			K		S01				Storage-Container (Refer to IV.E.2)
19	D	0	0	6			K		S01				Storage-Container (Refer to IV.E.2)
20	W	T	0	1			K		S01				Storage-Container (Refer to IV.E.2)
21	D	0	0	2	771		K		S01				Storage-Container (Refer to IV.E.3)
22	D	0	0	1	2,313		K		S01				Storage-Container (Refer to IV.E.4)
23	D	0	0	8	2,494		K		S01				Storage-Container (Refer to IV.E.5)
24	D	0	0	1	136,078		K		S01				Storage-Container (Refer to IV.E.6)
25	D	0	0	4			K		S01				Storage-Container (Refer to IV.E.6)
26	D	0	0	5			K		S01				Storage-Container (Refer to IV.E.6)
27	D	0	0	6			K		S01				Storage-Container (Refer to IV.E.6)
28	D	0	0	7			K		S01				Storage-Container (Refer to IV.E.6)
29	D	0	0	9			K		S01				Storage-Container (Refer to IV.E.6)
30	D	0	1	1			K		S01				Storage-Container (Refer to IV.E.6)
31	W	T	0	2			K		S01				Storage-Container (Refer to IV.E.6)
32	D	0	0	2	680		K		S01				Storage-Container (Refer to IV.E.7)
33	D	0	0	7			K		S01				Storage-Container (Refer to IV.E.7)
34	D	0	0	2	27		K		S01				Storage-Container (Refer to IV.E.8)
35	D	0	0	4			K		S01				Storage-Container (Refer to IV.E.8)
36	D	0	0	7			K		S01				Storage-Container (Refer to IV.E.8)
37	D	0	1	1			K		S01				Storage-Container (Refer to IV.E.8)
38	W	P	0	2	91		K		S01				Storage-Container (Refer to IV.E.9)
39	D	0	3	7	20		K		S01				Storage-Container (Refer to IV.E.10)
40													
41													
42													

IV. DESCRIPTION OF DANGEROUS WASTE (continued)

E. Use this space to list additional process codes from Section D(1) on page 3.

The following provides information concerning the types of waste that were stored at the 303-K:

1. Approximately 6,804 kilograms (15,000 pounds) per year of spent solvents – [This included spent degreasing solvents (F001, WP01, and WT01) that were occasionally mixed with ethyl acetate (D001, F003, and WT02). This also included spent halogenated and nonhalogenated solvents (F002 and F005). Waste solvents were corrosive (D002) and contained cadmium (D006), 1,1-dichloroethylene (D039), and trichloroethylene (D040)].
2. Approximately 36,288 kilograms (80,000 pounds) per year of heat treated salts contaminated with naturally occurring radioactive potassium-40 – [The heat treated salts were generated from both beta bath (8,165 kilograms (18,000 pounds) per year) and quench bath – (8,165 kilograms (18,000 pounds) per year). The beta bath salts consisted of potassium nitrate, sodium nitrate, sodium nitrite, potassium chloride, and sodium chloride. The quench bath salts were considered toxic, extremely hazardous waste (WT01) and were considered ignitable (D001) because of the presence of oxidizers (solid nitrates and nitrites). The quench bath salts also contained barium (D005), cadmium (D006), chromium (D007), and could have been considered toxic, dangerous waste (WT02).
3. Approximately 771 kilograms (1,700 pounds) of corrosive (D002) copper fluorozirconate acid crystals from the bottom of the waste acid tanks in the 334-A Building.
4. Approximately 2,313 kilograms (5,100 pounds) per year of Zircaloy-2 and beryllium/Zircaloy-2 chips and fines before and after concreting the waste in the 304 Building – [This material designated as ignitable (D001) because of the pyrophoric properties.].
5. Approximately 2,494 kilograms (5,500 pounds) per year of metallic lead (D008).
6. Approximately 136,078 kilograms (300,000 pounds) per year of centrifuge and filter press sludge designated as a toxic, dangerous waste (WT02) by the mixture rule and ignitable (D001) because of the presence of solid nitrates – [The waste also could have contained the following chemical constituents introduced into the 300 Area Waste Acid Treatment System: arsenic (D004), barium (D005), cadmium (D006), chromium (D007), mercury (D009), and silver (D011)].
7. Approximately 680 kilograms (1,500 pounds) per year of corrosive (D002) waste acid absorbed by sedimentary opal clay – [This waste also contained chromium (D007)].
8. Approximately 27 kilograms (60 pounds) per year of waste acids contaminated with oil – [The waste acids were designated as corrosive (D002) and contained arsenic (D004), chromium (D007), and silver (D011)].
9. Approximately 91 kilograms (200 pounds) per year of waste hydraulic oil that contained halogenated hydrocarbons (WP02).
10. Approximately 20 kilograms (44 pounds) of a mixed waste that contained pentachlorophenol (D037).

V. FACILITY DRAWING Refer to attached drawing(s).

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS Refer to attached photograph(s).

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION

This information is provided on the attached drawings and photos.

LATITUDE (degrees, minutes, & seconds)				LONGITUDE (degrees, minutes, & seconds)			

VIII. FACILITY OWNER

- ☒ A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information," place an "X" in the box to the left and skip to Section XI below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. Name of Facility's Legal Owner			2. Phone Number (area code & no.)	
3. Street or P.O. Box	4. City or Town	5. St.	6. Zip Code	

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name (print or type)	Signature	Date Signed
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	John D. Wagoner	Revision 5 signed 9/26/96

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name (Print Or Type)	Signature	Date Signed
See attachment		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

John D. Wagoner

Owner/Operator

John D. Wagoner, Manager

U.S. Department of Energy

Richland Operations Office

9/26/96

Date Revision 5 Signed

H. J. Hatch

Co-Operator

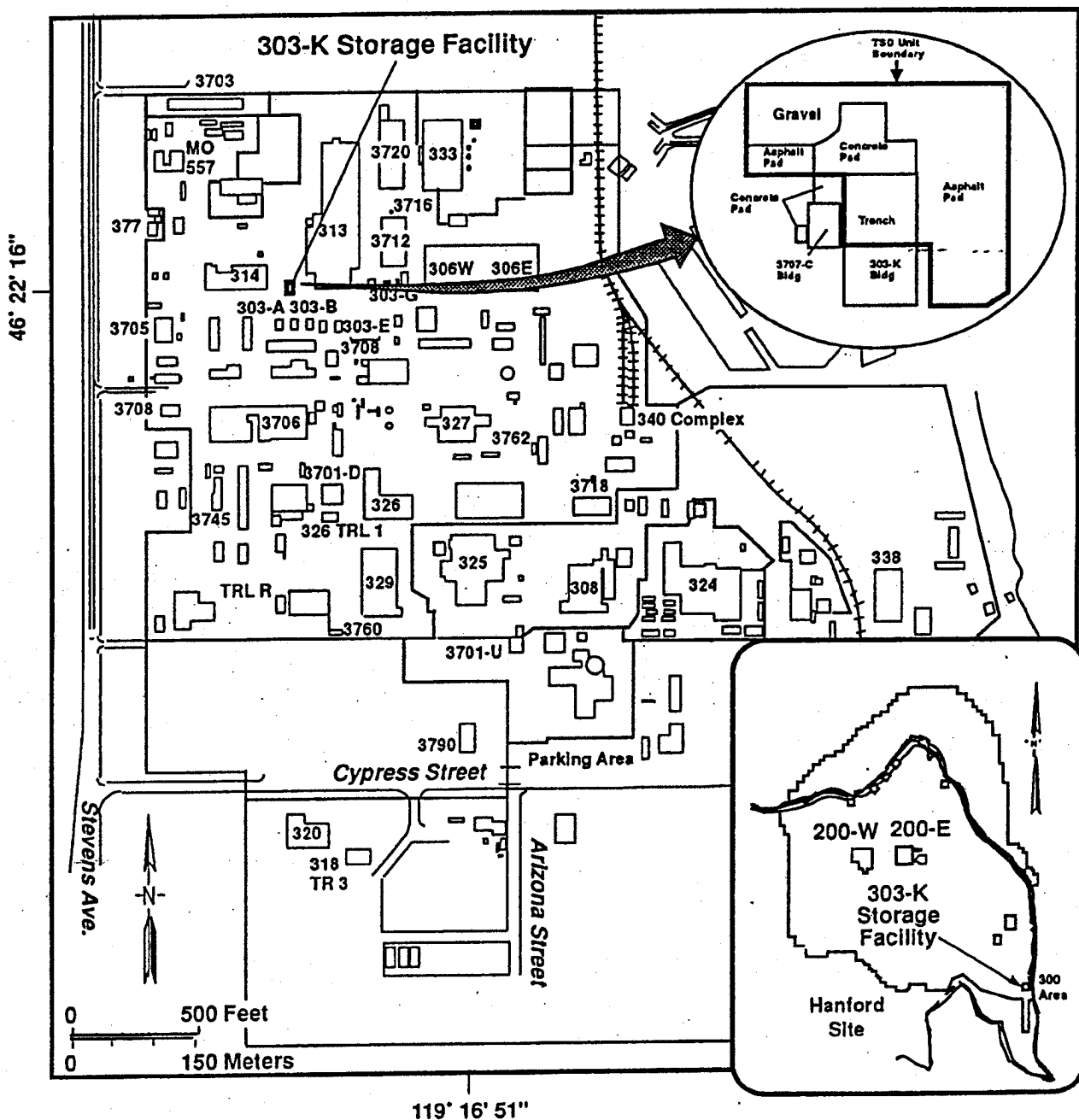
J. J. Hatch, President and Chief Executive Officer

Fluor Daniel Hanford, Inc.

9/13/96

Date Revision 5 Signed

303-K Storage Facility Site Plan



H96070161.21

303-K Storage Facility



46°22'16"
119°16'51"

96080657-6CN
(PHOTO TAKEN 1996)



46°22'16"
119°16'51"

96080657-8CN
(PHOTO TAKEN 1996)